

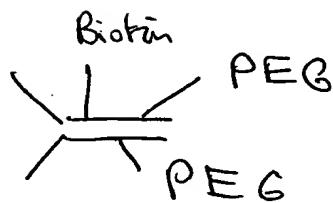
→ Invention (Examples 9 + 10)



biotinylated antibody

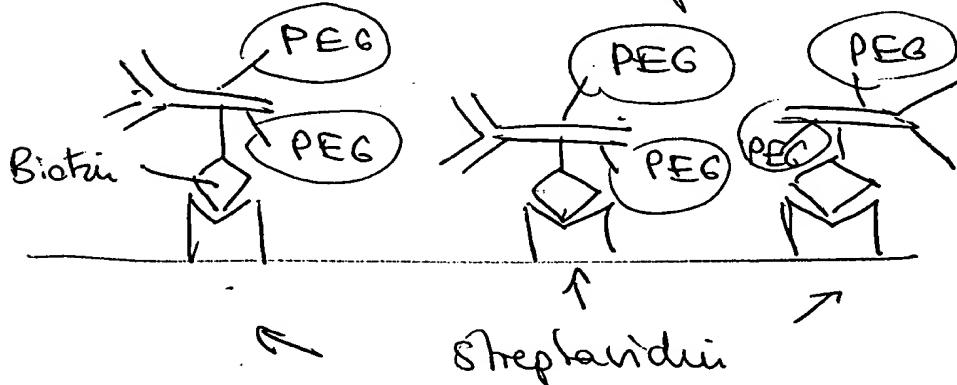
mono functionalized  
PEG - Derivative

reaction



PEG - conjugate of biotinylated antibody

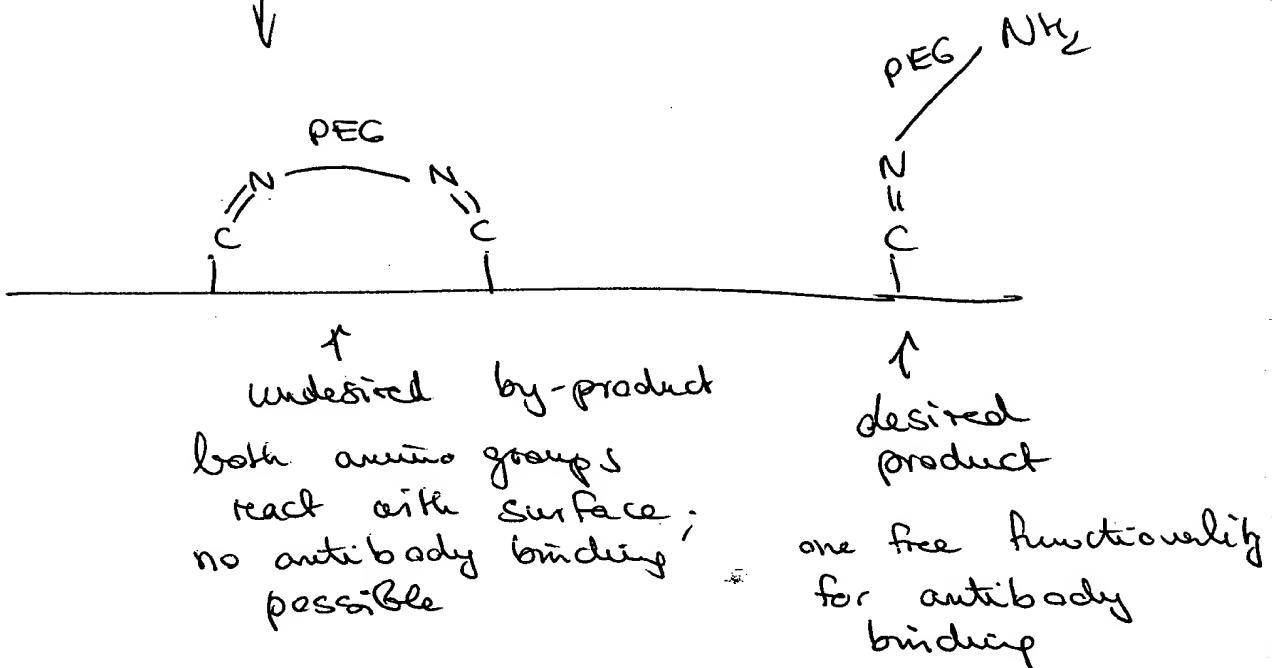
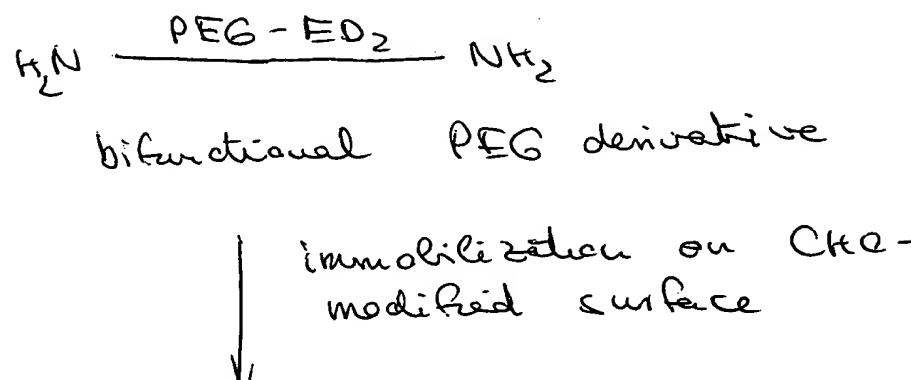
↓ immobilization  
on Streptavidin - surface



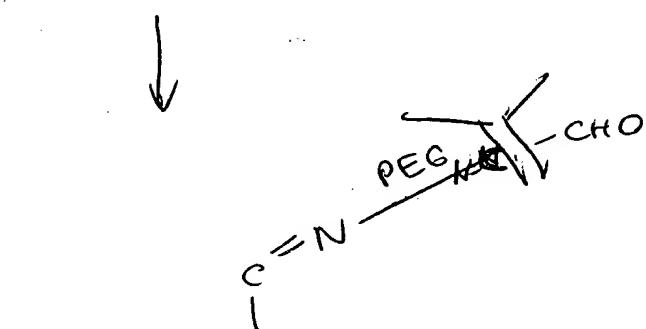
resulting product: PEG protects antibody  
from non-specific interactions;

no undesired side-reactions and  
byproducts

II) Prior art (Kerron)



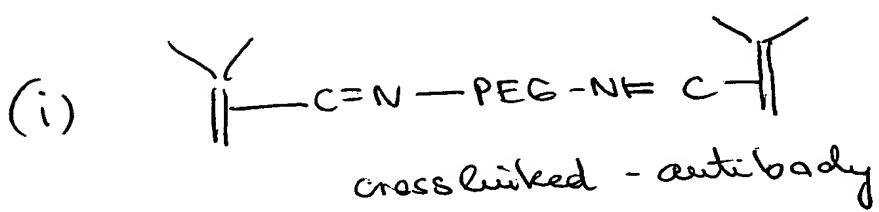
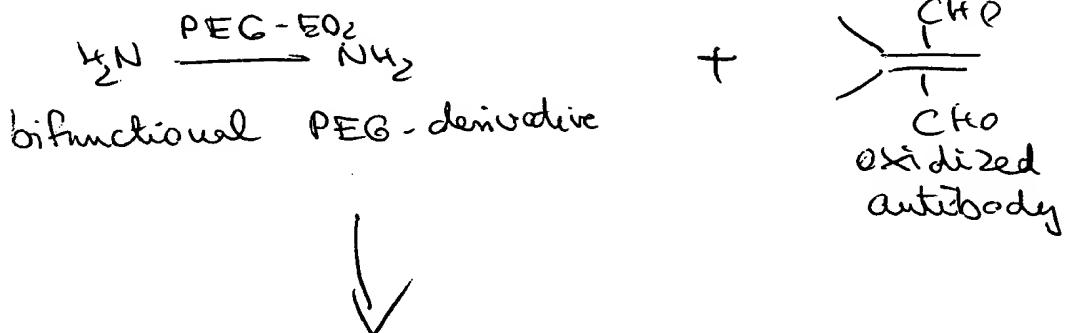
addition of oxidized antibody



resulting product: PEG acts as spacer for binding to surface; no protection from unspecific interactions e.g. with sample components

III

Preformation of PEG - antibody conjugate is not feasible according to the teachings of Herron



intramolecular reaction product